

## Preliminary List of Participants

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Classical spin glass system in external field with taking into account relaxation effects.
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Recent results for dihyperon states
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Quantum Field Theory on Loop Space
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Non-Relativistic Holography in Schroedinger Setting.
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Partial Restoration of Chiral Symmetry at Intermediate Energy: Experiment vs. Theory
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New High Precision Measurement of the Neutral Pion Life Time
9. **Gevorkyan, Ashot** (*Yerevan*)  
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Fundamental Environment and Problem of Nonpotential Interactions Between Particles.  
Fundamental Environment and Problem of Separability in Quantum Physics.
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Final state interaction of pions in kaon decays.
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Symplectic Extension of Boson Models of Nuclear Structure.
12. **Gerdjikov, Vladimir** (*Sofia*)  
gerjikov@inrne.bas.bg Nonlinear Schrodinger equations related to symmetric spaces and soliton interactions.

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Spontaneously broken spin symmetry in graphene films and spin waves quantum generation.
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Interpretation of Neutrinos and Matter Interactions as Contraction of Electroweak Model.
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Perturbation theory for spheroidal quantum dots.
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Symmetries in intrinsic frame.
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Transferring elements of a density matrix.
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Integrable spin chains based on Hecke and BMW algebras.
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Calculation of multiquark functions in effective models of strong interaction.
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Contractions in Spaces of Constant Curvature.
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Universality of mass and spin as a consequence of the STR symmetries.
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On the geometric probability of a mixed entangled two-qubit states.
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Helium trimer at ultralow energies.

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 Quartet States of the Leptons.
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 The Property of maximal transcendentality in the N=4 Supersymmetric Yang-Mills.
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 Maxwell gravity with new geometric vector fields
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 On the pair correlations of neutral K, D, B and B<sub>s</sub> mesons with close momenta produced in inclusive multiparticle processes.
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 Renormdynamics, multiparticle production, negative binomial distribution and riemann zeta function.
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 Relativistic differential-difference momentum operators and noncommutative differential calculus.
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 Category of Trees in Representation Theory of Quantum Algebras.
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 Irreducibility of the set of quantum field operators in noncommutative quantum field theory

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The helix-coil transition in double-stranded polynucleotide and two-dimensional random walk.
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Kac Moody Algebras.
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Hamiltonian Anomales of Bound States in QED,  
Universe as a Higgs Boson Factory
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Symmetry and unification of general relativity and quantum mechanics.
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Lie algebra contractions and separation of variables.
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Geodesics analysis of colliding gravitational shock waves.
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Topological Solitons in 8-spinor Mie Electrodynamics.
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Spherical nanolayers:optical properties and two electronic states.
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Quantum Non-Markovian Langevin Equations and Transport Coefficients.

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Operational model of quantum measurements of Kuryshkin-Wodkiewicz is a dissipative quantum system.
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Algebraic solutions of heavenly equations.
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Hamiltonian anomalies of bound states in QED.
54. **Shirkov, Dmitry** (*Dubna*)  
Etudes on the Symmetry Breaking
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Nonperturbative quantization of nonabelian gauge theories
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Elliptic hypergeometric functions and the representation theory.
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Variational perturbation theory and nonperturbative calculations in QCD.
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SUSY transformations for generalized Schrödinger equations
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Observable Quantities in the Weyl Gravity.
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Freely falling charge in de Sitter universe in non-relativistic limit.
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New Chern-Simons densities in both odd and even dimensions.

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Algebraic structure of mixed parastatistics.
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Time dependent harmonic oscillators: Coherent state approach.
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Cosmological models with Yang-Mills fields.
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Haag's theorem in noncommutative quantum field theory.
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Perturbation theory for spheroidal quantum dots.
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On deformations of Lie-Poisson brackets.
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Lie Algebra Contractions and Separation of Variables on Two-Dimensional 1-sheet Hyperboloid. Basis Functions and Interbasis Expansions.
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Complementary part of relativity connected with Lobachevski space.
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Thermodynamics of quark quasi-particle ensemble.
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Dynamics and Radiation of Harmonic Oscillatory Charge within an IED Particle.